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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/735,769	12/16/2003	Koichi Kawamura	Q79007	3973	
23373	7590 09/25/2006		EXAM	INER	
SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037			CHACKO DAV	CHACKO DAVIS, DABORAH	
			ART UNIT	PAPER NUMBER	
			1756		
			DATE MAILED: 09/25/2000	DATE MAILED: 09/25/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
	10/735,769	KAWAMURA ET AL.		
Office Action Summary	Examiner	Art Unit		
	Daborah Chacko-Davis	1756		
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with	the correspondence address		
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICA 1.136(a). In no event, however, may a repl od will apply and will expire SIX (6) MONTH tute, cause the application to become ABAN	ATION.  y be timely filed  IS from the mailing date of this communication.  NDONED (35 U.S.C. § 133).		
Status				
1) ☐ Responsive to communication(s) filed on 27 2a) ☐ This action is <b>FINAL</b> . 2b) ☐ TI 3) ☐ Since this application is in condition for allow closed in accordance with the practice unde	nis action is non-final. vance except for formal matter	•		
Disposition of Claims				
4) □ Claim(s) 1-23 is/are pending in the application 4a) Of the above claim(s) is/are withden 5) □ Claim(s) is/are allowed. 6) □ Claim(s) 1-23 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and	rawn from consideration.			
Application Papers				
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) and a specificant may not request that any objection to the Replacement drawing sheet(s) including the correction.  The oath or declaration is objected to by the	ccepted or b) objected to by ne drawing(s) be held in abeyance ection is required if the drawing(s)	e. See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>				
Attachment(s)				
1)		Mail Date rmal Patent Application		

#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-23, are rejected under 35 U.S.C. 102(e) as being anticipate by U.S. Patent No. 6,919,158 (Kawamura et al).

Kawamura, in col 5, lines 15-67, in col 6, lines 1-12, in col 7, lines 1-28, in col 17, lines 65-67, in col 18, lines 1-27, and lines 31-60, discloses a method of forming a pattern by exposing a hydrophilic compound formed on a support to radiation so as to form a hydrophilic/hydrophobic pattern that includes regions formed on the support with graft polymers, and regions with no graft polymers; applying a layer of material on the support with the hydrophilic/hydrophobic regions. Kawamura, in col 23, lines 61-67, in col 24, lines 1-35, in col 25, lines 56-67, in col 26, lines 1-10, discloses that the support surface is exposed to irradiation (e-beam, or low energy exposure, image-wise fixed) so as to cause a radical (initiator) to be generated on the surface of the support causing the surface of the substrate to manifest polymerization initiating ability, a polymerization initiator containing composition is applied on the support to initiate polymerization on the

support surface, at active sites, after which a monomer containing functional group (graft polymer, of positive or negative charge) is made to contact the surface of the support (support having polymerization capability) inorder to surface graft the polymer on the support to form corresponding hydrophilic/hydrophobic pattern (depending on the polarity of the graft polymer) (claims 1-2, 4, 8, 11, 14-15, 18, 21). Kawamura, in col 18, lines 31-65, discloses that the substance added to the support is a colorant, and or a dye and can be conductive (charge-containing, a polar group), said substance is formed of fine particles (claims 3, 5-7, 9-10, 12, 16-17, 19-20, and 22). Kawamura, in col 19, lines 1-51, discloses that the substance can be a conductive polymer comprised of absorbing material (claims 13, and 23).

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## Response to Arguments

- 3. Applicant's arguments filed July 27, 2002, have been fully considered but they are not persuasive. The 102 (e) rejection made in the previous office action (paper no. 0320) is maintained.
- A) Applicants argue that Kawamura does not disclose "a region wherein an initiator having an ability to initiate polymerization is image-wise fixed".

Kawamura, in col 24, lines 5-8, discloses a region (the surface of the substrate) being exposed to energy (e-beam, plasma etc.) and causing the generation of a radical (initiator) on the surface of the substrate such that the radical is fixed on the surface (due to exposure), and the substrate surface manifests polymerization initiating ability.

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#### Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daborah Chacko-Davis whose telephone number is (571) 272-1380. The examiner can normally be reached on M-F 9:30 - 6:00. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark F Huff can be reached on (571) 272-1385. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

dcd

September 20, 2006.

JOHN'A. MCPHERSON PRIMARY EXAMINER

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